RINGS XM Tour Metrics June 14 2006

Tour	NOTES	IX1	QX1	OF1	OF2	OB1	OB2	IF1	IB1	IB2	IB3	PF1	PF2	QB1	OFQ1
Sunlit rings	3	V_GOOD	NONE	BAD	OK	V_GOOD	GOOD	OK	OK	GOOD	GOOD	V_GOOD	GOOD	GOOD	GOOD
before equinox															
Sunlit rings	4	BAD	GOOD	BAD	GOOD	V_GOOD	GOOD	GOOD	GOOD	GOOD	BAD	GOOD	OK	GOOD	OK
after equinox															
HI-RES LIT RINGS	19	V_GOOD	NONE	NONE	OK	V_GOOD	ок	GOOD	GOOD	OK	BAD	GOOD	GOOD	GOOD	GOOD
< 20d of Solar Equinox		83.5	0	0	40.5	146.5	40.5	57.5	57	37	22	59	45 *	48	42
Prometheus-F collision?	5	V_GOOD	V_GOOD	BAD	OK	V_GOOD	BAD	GOOD	GOOD	GOOD	GOOD	V_GOOD	GOOD	V_GOOD	V_GOOD
I > 65 deg?	8	71	40	13	22	50	32	44	44	52	31	15	22	39	13
RSS OCCs CHORD	16	GOOD	OK	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	V_GOOD	V_GOOD	OK	GOOD	GOOD	GOOD
RSS OCCS RADIAL	17	NONE	NONE	OK	GOOD	OK	V_GOOD	GOOD	GOOD	GOOD	NONE	V_GOOD	GOOD	OK	NONE
UVIS OCCS	18	BAD	OK	OK	GOOD	OK	OK	OK	OK	OK	GOOD	V_GOOD	V_GOOD	GOOD	BAD
at Low Inclination															
Equat. revs?	10	NONE	NONE	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
0-phase views?	7	NONE	BAD	NONE	NONE	NONE	NONE	GOOD	GOOD	NONE	NONE	BAD	GOOD	BAD	OK
RING ROCK FLYBYS	21					OK		GOOD	OK	GOOD		OK	OK	OK	
Low/med phase at < 20 Rs	1	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
High phase at <10 Rs	2	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
3 < I < 25 deg ?	9	0	3	7	10	2	6	4	4	5	7	6	7	3	3
Inclined orbits > J/Epi swap (2/10) ?	6	yes	yes	no	no	no	no	no	no	no	no	yes	no	yes	yes
Diversity of Viewing in various Geometries	20	V_GOOD	GOOD	BAD	BAD	V_GOOD	GOOD	GOOD	GOOD	GOOD	OK	OK	TBD	TBD	TBD
Final incl.	11	40	18	0	0	0	0	0	0	0	0	0	0	3	67
Ring Viewing 6+ months > Equinox	12	yes	yes	no	no	yes	no	ok	ok	ok	no	yes	no	yes	yes
Equat. after	13			2010.0	2010.0	2010.3	2009.9	2010.1	2010.1	2010.1	2009.8	2010.2			
Final petal APO hour angle	14	6.5	23 MT	17	16	9	7.5	9	2 MT	3	1 MT	23 MT	19	22	0
PETAL ROTATION DIRECTION	15	CW	CW	CCW	CCW	CW	CW	CW	CW	CW	CW	CCW	CCW	CW	CW
	_														
JUDGE #1		6	-1	-5	4	13	4	7	7	8	-2	12	9	8	4
JUDGE #2		-3	-5	-3	11	13	9	15	15	13	3	16	16	14	6
JUDGE #3															
OVERALL		RED	RED	RED	YELLOW	GREEN	YELLOW	GREEN	GREEN	GREEN	RED	GREEN	GREEN	GREEN	RED

Item

- 1 --- Low to Medium Phase viewing time insde 20 Rs
- 2 --- High Phase viewing Time inside 10 Rs
- 3 --- HOURS of viewing the SUNLIT RINGS in 60 days before Solar Equinox
- 4 --- HOURS of viewing the SUNLIT RINGS in 60 days after Solar Equinox
- 5 --- Viewing Conditions for Prometheus / F-Ring Collision
- 6 --- Presence of low to moderate inclined orbits ~6+ months after J-E orbit swap to look at A-Ring Wave structures
- 7 --- Opportunities to observer Zero Phase passage thru the Rings
- 8 --- Number of Orbits with Inclination of 65 degrees or more
- 9 --- Number of Orbits with inclination between 3 and 25 degrees
- 10 --- Does Tour contain some Equatorial Revs
- 11 --- Inclination at end of Tour
- 12 --- Do we have good Ring Viewing conditions ~6 months after Equinox
- 13 --- Date when Tours orbits become Equatorial
- 14 --- Final Petal Apoapsis Hour Angle
- 15 --- Direction of Petal Rotation
- 16 --- RSS OCCs at hich inclination early in the Tour -- CHORD Occs
- 17 --- RSS OCCS at low inclination -- RADIAL Occs
- 18 --- UVIS Stellar Occs at low inclination
- 19 --- Hi Res viewing conditions of Lit Rings within 20 days of Solar Equinox
- 20 --- OVERALL Viewing in various Geometries (based on HOURS of viewing time at low-medium and high SHA for LIT and UNLIT Rings
- 21 --- Quality of Rock Flybys on Prime Ring Rock Targets.